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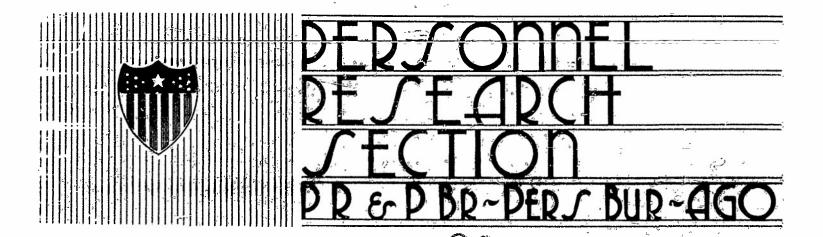


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16 July 1946

THE VALIDITY OF THE RADIO INFORMATION TEST FORMS 1 AND 2 IN PREDICTING SUCCESS AMONG TRAINEES AT THE RADIO REPAIR COURSE AND IN THE COMMUNICATIONS COURSE AT THE TANK DESTROYER TRAINING SCHOOL, CAMP HOOD, TEXAS FEERUARY 1944

PURPOSE

To determine the validity of the Radio Information Test, Forms 1 and 2 and the Radio Experience Check List in predicting grades in the Enlisted Radio Repair Course and the Enlisted Communications Course at the Tank Destroyer School, Camp Hood, Texas.

II. POPULATIONS

- 1. The members of Classes 2, 6 and 7 of the Communications Course at the Tank Destroyer School, numbering 86 in all, and a second equivalent group including Classes 3, 4, 5 and 8 totalling 117 cases. Requirements for the course are AGCT-1 and MA scores of 90.
- 2. The members of Classes 1, 2 and 5 of the Enlisted Radio Repair courses, numbering 79 cases in all and a second equivalent group of 62 cases in Classes 3 and 4. Minimum requirements for this course are AGCT-1 and MA scores of 100. 8th Grade education and prior graduation from the Enlisted Communication Course.

III. VARIABLES

o A. Experimental tests

- l. Forms 1 and 2 of the Radio Information Test (Experimental). These tests differed from previously constructed tests, such as those of the TK series in that it was desired to obtain items which would differentiate within the general reception center population. To achieve this end, subject matter experts with considerable experience in teaching electricity and radio at the practical rather than at the theoretical or verbal level were engaged to write items for those tests. Forms I and Z each consisted of 148 items, three of which were practice items. The scering formula was R-1/3 W. No time limit was imposed.
- 2. The Electrical and Radio Experience Check List contains 33 operations involving odd jobs or informal experiences with radio or clock tricity tools of the sort that were thought to occur with approciable frequency in the general population. The subject is asked to indicate with a single check those jobs done or tools used at least once and with a double check those done at least 5 times in the last two years. The score is the total number of checks.

. • •

- B. Tests scores obtained from Form 20.
 - 1. AGCT-1 standard score
 - 2. MA standard score
- C. Criteria
- l. In the enlisted communications course time allotments and tests were as follows:

1st & 2nd Weeks - Theory 3d Week - Map Reading

4th to 7th Weeks - Communication Post Subjects: Message Center, Code & Cipher, Voice Procedure, Proventive Maintencance of Radio Sets and Wire Communications.

8th to 10th Week - Field Operations
Practical field work covering field tactics of Mossage
Conter, and all of the other material covered in the proceding seven weeks,
MS:given to EM at end of field operations based upon judgment of all of the instructors. "Leadership" considered by

ment of all of the instructors. "Leadership" considered by instructors to be a valuable criteria in this final rating & assignment of MOS. No Graded Tests (GT) given after completion of 7th week of course.

It is evident that this course contains a very considerable amount of ratcrial not related to radio theory or practice. Consequently, too much emphasis should not be placed upon the correlation with grades obtained from these courses in judging the effectiveness of the test.

2. Similar descriptive material is given below for the Enlisted Radio Repairman Course:

lst Week - Circuit tracing & review on Radio Theory.

2d Week - First week of T & R (Practical Work in Radio Testing & Repairing, in the Communication Dept's. Radio Laboratory.)

Consists in Orientation in Radio Sets 610,608,506.

3d Week - Practical Work in T&R on 610 Radio. 4th Week - Practical Work in T&R on 608 Radio.

5th Week - Practical Work in T&R on 506 Transmitter.

6th Week - Practical Work in T&R on 506 Receiver,

1 Graded Test (GT) in 1st Week on Theory

5 Weokly "Progross" grade reports thereafter, given numerical values. These are based on each week's work in T&R, short quizzes, and observation by instructors.

While the grades for theory and practical work were obtained and processed separately, it would seem that greater emphasis should be placed on the latter. Since Radio theory was taught an only a very short initial period in the course, it is quite probable that little change in the amount of information possessed by a given individual occurred as a result of this training. This being the case, the meaning of correlation between a radio information test given just before the course and grades determined by an

achievement test—which is very similar to the radio information test—given a week afterwards is not too clear. Probably the coefficient obtained is more in the nature of a reliability coefficient than a validity coefficient, or it may merely show the degree of similarity of content to-tween the two information tests.

IV. PROCEDURE

A. In the field

The tests and check lists were administered at the beginning of the courses. Both the Enlisted Communications Course and the Enlisted Radio Repairman Classes were divided at random between those taking Forms 1 and 2 of the Radio Information Test.

B. In PRS

1. Intercorrelations, means and SD's were computed for all var—

- 1. Intercorrelations, means and SD's were computed for all variables separately, by course and by form of the Radio Information Test administered. Each r was computed for all cases available.
- 2. The frequency distributions for the information tests were leternined.
- 3. Biserial correlations between the criterion and each item were computed, together with difficulty values in both the Enlisted Communications and the Radio Repairman Courses.
- 4. These data were transferred to the item cards employed in a total score item analysis on a reception center population. This total score item analysis was accomplished in the study referred to in the introduction of this paper. (PRS #568). Cards had been propared with item content and difficulty values for five quintiles of the test. In selecting the items the validities against grades in the Radio Repair Course were more heavily weighted than those for the Enlisted Communications Course. Difficulty values from the original item analysis study with now inductoes were used in preference to those obtained with the selected sorvice school populations used in the present validity studies. In eneral it was attempted to obtain items with high validity, low difficulty values, and low corrolations with the ramining items.

V. RESULTS

l. The means, SD's and intercorrelations for the enlisted communication trainees taking Form 1 and for those taking Form 2 are presented as Table I while comparable data for the Enlisted Radio Repairman are presented as Table II.

TABLE I

NEANS, STANDARD DEVIATIONS AND INTERCOPRELATIONS OF TEST SCORES AND THE FINAL COURSE GRADE AMONG TRAINEES IN THE ENLISTED COMMUNICATIONS. COURSE AT THE TANK DESTROYER SCHOOL PRESENTED SEPARATELY FOR THOSE TAKING FORM 1 AND THOSE TAKING FORM 2 OF THE RADIO INFORMATION TEST CAMP HOOD, TEXAS, FERRUARY, 1944.

F O R M	PEAN ** SD ** 1. AGCT-1 2. PA 3. RADIO INF: 4. EXPERIENCE CI 5. COURSE GRADES	HECK LIST	2 108.6 14.0 .57(86)*	3 15.7 13.7 .26(86)* .49(86)*	4 22.1 10.0 .14(86)* .38(86)* .43(91)*	5 84.2 13.9 .60(86)* .48(86)* .45(91)* .25(91)*
F C R M	LEAN ** SD ** 1. AGCT-1 2. MA 3. RADIO INF1 4. EXPIR HENCE CI 5. COURSE GRADER	HECK LIST	2 108.0 13.8 .54(110)*		4 23.2 12.3 .17(117)* .26(110)* .54(131)*	

- * Number of Cases
- ** The means and standard deviations are those obtained in computing that coefficient involving the largest number of cases.

TABLE II

PEANS, STANDARD DEVIATIONS AND INTERCORRELATIONS OF TEST SCORES AMONG ENLISTED PADIO PEPAIRMEN AT THE TANK DESTROYER SCHOOL PRESENTED SEPARATELY FOR THOSE TAKING FORM 1 AND THOSE TAKING FORM 2 OF THE RADIO INFORMATION TEST, CAMP HOOD, TEXAS, FEBRUARY 1944

			•				
		1	2	3	4	. 5	6
O R	. 5. RADIO	8 , 7 1	Purse grad	24.6 .31(75)* .54(67)*	32.7 13.7 .23(75)* .54(67)* .69(79)*	84.3 1'.1 .23(75)* .48(67)* .63(79)* .51(79)*	•38(67)* •63(78)*
		1	2	3	4	5	6
C 17	1. AGCT- 2. IVA 3. RADIO 14. EYP. 5. RADIO	11.6	•36 (55)* : : : : : : : : : : : : : : : : : : :	24.2 .17(57)* .41(55.)*	32.2 12.0 .04(58)* .25(55)* .62(62)*	84.4 15.2 .16(57)* .40(54)* .60(59)* .44(59)*	84.4 4.2 .22(57)* .46(54)* .56(59)* .42(59)* .65(58)*

- * Number of Cases
- ** The means and standard deviations cited are those obtained in computing that coefficient involving the largest number of cases.
- though the entrance standards with respect to AGCT-1 and MA were theoretically the same, the means are higher for AGCT-1 in each instance and the SD's lower-showing a pattern which might well have occurred if selection were on AGGT-1 alone. In the case of those in the Enlisted Communications Course selection definitely lowered the correlations of AGCT-1 and possibly those of MA with other variables. In this connection it might be noted that the means of the AGCT-1 are higher than those usually obtained in courses where entrance is based on a score of 90 on the AGCT-1 and the MA. The degree to which selective factors influenced the intercorrelations of the variables of Table II is not so clear. It can be seen that the ACCT-1 and MA means are each somewhat higher than in the case of the Enlisted Communications Course Trainees (Table I).

The means on the Radio Information Tests are considerably higher and those for the check list somewhat higher than in Table I. These differences offer no definite clue as to the selective procedure.

of AGCT-1 over the other predictors in spite of the aforementioned biasing effect which must have occurred because of selection on AGCT-1. If we drop out the Experience Check List as apparently contributing no increment of predictive efficiency and correct the correlations ** for restriction on the assumption that selection occurred on AGCT-1 alone, we obtain the entries listed in Table III. Since the means of selection appears less clear in the case of Table II no attempt was made to correct the correlations for selection.

TABLE III

INTERCORRELATIONS CORRECTED FOR RESTRICTION IN RANGE OF TEST SCORES AND FINAL COURSE GRADES AMONG TRAINEES IN THE EMLISTED COMMUNICATIONS COURSE AT THE TANK DESTROYER SCHOOL, CAMP HOOD, TEXAS, FEBRUARY, 1944

1	2	3	4
l.AGCT-1	•80	•50	•77
2114		•50	. 71
3.RADIC LIFERIATION			•52
4.COURSE GRADES	•	*	•

From Table III it can be seen that when allowance is made for the effect of the restricted range of AGCT, Radio Information adds nothing to the prediction obtainable with AGCT-1 alone.

- * Correlations with AGCT-1 were corrected according to the formula rk/ (1-(1-k2)r) while the remaining formula (ryz (1-k2) rxyrxz). (1-(1-k2) rzx) -1/2 (1-(1-k2) rzx) -1/2 where x is AGCT and k is the ratio of obtained SD for AGCT to 22.5-its assumed value in the general population.
- ** The avorage of the two entries in the two component parts of Table I weighted according to their N's, was employed as an ostimate of the correlations as they would have been if the two populations had been thrown together before the correlations were computed. It seemed justifiable to assume that this procedure would yield an accurate estimate since the missing elements of the full formula functions of the difference between overall means and SD's and morns and SD's for each sut-population are very small in each instance.

Turning back for a moment, it may be noted that the pattern of intercorrelation in the two matrices of Table II is distinctly different from that in Table I with respect to several points. First of all, the experimental tests and the check list correlate much more highly with grades in Table II than in Table I. In the other hand the validity of AGCT-1 is Tery considerably lower and that of MA somewhat lower in Table II than in Table I. While the SD's of AGCT-1 and MA are smaller in Table II, it is not cortain that the restriction occurred directly on either or both of these variables, and in any event, the drop in validity does not appear due to this factor. The rather considerable drop in the correlations between ASCI-1 and MA are of interest in this connection. No explanation for this drop is readily apparent. Note that the pattern of correlations with grades in Radio Theory and other predictors corresponds rather closely to the correlations between Test and Repair grades and the various predictors even though the first is an information measure of a verbal type and the second ernsists largely of evaluations of practical work of the courses.

2

- Thile the validity of the check list is clearly higher in Table II than in Table I, its correlation with the Radio Information Test is also considerably increased over the values obtained in Table I. Hence, with in Table II it adds little or nothing to prediction of either of the criteria. It might of course to maintained that the check list is more nearly a criterian than a predictor. If this were true it is to the advantage of the Radio Information Test that it correlates highly with the check list. While it appears rather unusual that the Check List should add nothing to the profictive officiency of the Radio Information Test in predicting goodness of performance in work of a practical nature, the problem could not be whelly estitled without measures of performance on the job.
- 6. An important aspect of an evaluation of the Radio Information Test for selecting trainees is the problem of item difficulty. After the original analysis, the work on the test was abandoned, since the distributions were positively skewed to an extreme degree in the Reception Center population for which the test was constructed. Since that time it has appeared likely that the test will, if introduced, be employed at the training center level so that the high difficulty level of the test is not so important a consideration as in evaluating its usefulness for a Reception Center population.
- 7. Table IV gives the frequency distributions of the total test series within the several training populations. It is encouraging that the listributions are positively skewed in both populations
- 8. In Tables V and VI the item analysis results an aumorized. Alterials indicate the items tentatively selected for final use. In selecting items the validities within the Radio Repair course were weighted more beavily than you those for the Enlisted Communication Course. In judging difficulty, however, consideration was given all populations including that on a realize group of basic trainees which was intended originally to provide the tesis for item selection (see PPS Report #568). While it was desired to sometimes with low total score correlation in the original item analysis sample, this consideration affected the selection very little since nearly all items had low total score correlation. Item centent was, of course, an

TABLE IV

FREQUENCY DISTRIBUTIONS OF RADIO INFORMATION FORMS 1 AND 2 IN THE ENLISTED COMMUNICATIONS TRAINERS AND THE RADIO REPAIR TRAINEES COMPRISING THE ITEM ANALYSIS SAMPLES CAMP HOOD, TEXAS, FEBRUARY, 1944

	FOR	n 1	FR	и 2
	RR	EC	RR	EC
100-104	8	2	. 3	11
95-99	15	28	12	35
90-94	12	12	14	24
85-89	7	10	6	21
80-84	9	10	7	7
75-79	11	7	4	13
70-74	5	7	4	8
65-69	4	6	3	4.
60-64	5	2	3	3
55-59	2	4	1	3
50⊶54			1	
45 - 49		1	1	
40-44		1		1
35 -3 9	1			1
30-34	•	-		
s.	79	91	59	131

TABLE V

ITEM DIFFICULTIES AND BISERIAL VALIDITIES FOR FORM 1 OF THE RADIO INFORMATION TEST WITH 91 TRAINEES OF THE ENLISTED CONTUNICATIONS COURSE AND 79 TRAINEES OF THE RADIO PEPAIR COURSE CAMP HOOD, TEXAS, FEBRUARY, 1944

	PADIO 1	REPATR -	- ENLISTED COM	UNICAT IONS
	Percent Correct	Validity	Percent Correct	Validity
4*	47	•67	21	- €25
5 ∗	57	•73	. 16	02
6*	59	•76	19	06
7*	` 66	.64	15	.17
8*	81	.62	21	 ∳05
9*	81	•55 A	16	07
10	- 34	25	13	~. 20
11*	72	. 67 .	19	•15
12*	37	•56	8	•09
13	38	•15	6	.17
14*	51	•52	20	12
15*	- 62	•57 ·	16	•23
16*	. 6 7	• 58 -	27	•02
17	33	•O5 ·	33	•02
18	<u> </u>	•27	35	•24
19	9	•26	16	27
20	23	•23 •	10	06
21	8	•44	12	31
22	49	•37	24	09
23*	35	•43	21	50
24	71	•20 .	74	•01
25	84	•11 .	68	.15
26*	. 77	•82 ·	76	•30
27*	97	•99 •	7 9	23
28	84	•35	54	•27
29	87	•28 →	46	18
30	64	•46 ·	41	.19
31	76	•33 •	50	•07
32	77	•11 •	44	•28
33 -	24	.17	28	. 02
34	82	•29	85	•46
35*	28	•53 ·	15	. 27
36 27.	3 0	•33 •	36.	•53
37÷	ភូគ្គ ១៩	66 v	35	7Þ,
38*	85	•61	95	-,00
39 30	30 54	•20 ·	85 20	~~25
(O*	84	•39	60	-43
11* 42*	52 7 0	•€0 →	50 67	,58
1.64 1.3		•50 ••	25	-46
16	59 34	•08	13 ve	,33
45*	56 56	27 ·	86 80	a15
46*	66	45	38	
47*		•G1	34	.24
ボッケ	Up.	•54	.35	20

TABLE V (Cont'd)

		RADIO RE	PATR		ENLISTED COMM	TINTC AT TONS
	Percent	Correct	Validity		rcent Correct	
- 78	1010000	24	05	10.	11	~•34
49		34	.14		18	31
50*	,	87	•65	•	50	•10
51	•	22	01		4	•10
			10		18	 06
52		19				01
53		18	•19		12	
54		14	•19		6	•02 20
55		20	•23		12	 29
56		26	•12	•	9	16
57*	•	53	•41		13	11
58		24	•14	•	9	16
5 9		59	•32		19	08
50		32	•03	•	12_	27
€1		11	24	•	5	28
62		25	•23		12	31
S34	•	86	•46		8 2	∙ 57
. 54		38	•10		24	17
* 8E		£26.	•25		5 3	•14
1.80%	•	5 7	<u>.</u> ∴2		16	10
17:		<u></u>	•53		27	o <u>4</u> 4
• 58		2 ô	25		23	19
25		19	.04		18	01
70		÷3	•35	·	19	.19
71		15	.19	•	15	13
72		81	•31	•	5 5	•28
73×	k	39	40	,	12	•01
. 74		71	•43	•	10	•17
75		$\epsilon 7$	•58	٧	46	•03
. 76		53	•57		24	08
,77		55 64	•54	*	24	-28
	F				12	07
. 78		34	•25		18	 20
,79:	¥	64	•67	•		21
.80		19	.18		9	
.81		3 9	.16	•	21	,21
.02		14	.11	:	8	,22
,33:		51	•52		31	,05
84		54	•50	•	16	.15
35	*	84	.40		10	~,18
23		<u></u>	• <u>l</u> o		<u>1</u> 8	18
\$7		32	.22		30	.13
98		19	10	•	90	** • 1./4
3.5		35	•69		14	OL
بر" ل	*	50	•46		23	12.5
's 1		E/Z	•24	,	<i>t</i> ₃ ()	-007
12		15	.21	4	9	+038
3%		30	•11		22	-v17
34	*	29	•59		3	20
95		22	•02	,	11	,12
90	*	29	.48	, ,	12	Ll
:37		18	.43	•	4	• 06
58		23	#F3	•	4	.00

TABLE V (Cont'd)

	RADIO REPA	TR	EN	LISTED COMM	UNIC AT IONS
Par	cent Correct	Validity		ent Correct	
99	26	06		14	41
100*	54	• 50		27	•09
101	20	.29		03	•15
102	47	• 3 8		9	Ol
103	34	•38		6	• 50
104	16	⇒ •26		6	•32
105	34	\39	•	13	17
106	11	17	,	4	•31
107	23	\$ 06	•	18	•33
108	23	\$35		11	•04
109	39	-111	•	27	•09
110	10	¥.04	•	4	 57
111	0	-		3	 60
112	6	05	•	5	11
113	15	•35	•	12	. 03
114	39	•31		43	•44
115	20	·· 04		13	•04
110	22	.31	•	13	•30
117	16	41		5	∙3 8
118	25	.26		8	•22
119	11	19		1 0	- ₀2
120	14	•23		14	 ∙03
121	$\overline{\hat{\mathbf{z}}}$	•05		21	 05
122	13	•01		6	•20
123	18	•14		IC	11
124	33	02	•	30	01
125	18	.12		11	15
126	5	•37		4	11
127	18	•23		11	•04
128	18	.12		18	. 22
129	9	•40	•	5	11
130	14	•04		12	 •05
13.1	10	04		4	•06
132	18	•12	٠, ٠,	9	Ol
133 .	20	•16	,	23	. 26
134	8	.21		5	•07
705	13	•37	1,	31	. 31
136	11	•07	•	4	~. 20
137	10	-25	,	12	•26
138	10	.19	*	12	13
139	6	•03	•	6	23
140	Ā	02	•	3	81
141	8	.24	•	12	.21
142	5	20		5	21
143	ž	•01	* *	8	•00
lui Lau	4	-32	•	4	15
145	î	•49	V	3 .	28
165	$\tilde{4}$	•44	•	2	29
747	4	.21	•	10	IS.
148	â	45	٠	2.	44
واللامد	14	•	*		• .

^{*} Items terdatively selected for Final Form 1.

TABLE VI

THEN: DIFFICULTIES AND BISERIAL VALIDITIES FOR FORM 2 OF THE RADIO INFORMATION TEST AMONG 59 ENLISTED RADIO REPAIRMEN AND AMONG 131 ENLISTED CONMUNI ATIONS COURSE TRAINEES CAMP HOOD, TEXAS, FEBURARY, 1944

	RADIO REPA	I.R	ENLISTED COMMUNICATIONS		
Pe	rcent Correct			Validity	
4	` 7 3	15	50	•19	
5*	90	- 86	47	•31	
6*	95	∙ 58	62	.21	
7*	71	•51	37	•27	
8*	76	.61	· 47	•28	
9*	59	•59	· 39	•34	
10	29	•12	23	•29	
11	83	•13	69	•30	
12*	73	-4 8	• 38	, 18	
13	22	•33	19	16	
14*	74	•45	46	•15	
15	25	-,12	34	.21	
16.	32	e07	25	•03	
17	49	•25	21	.10	
18	32	05	32	•09	
19	44	•07	46	02	
20,	54	•26	67	.11	
21,	88	.02	84	•09	
22,	56	•31	38	•20	
23	32	14	18	,24	
24	74	.14	52	.21	
25	19	02	18	•13	
26	59	•19	44	 05	
2,7	20	•15	16	03	
28*	73	•44	72	.22	
.29∗	46	•34	34	,36	
30	30	•19	11	.•28	
31*	59	46	37	•26	
32	20	.15	18	•10	
33	6 9	•22	34	•10	
34	42	•00	37	•10	
.35	22	•24	25	•00	
. 36*	46	•42	21	•28	
. 37*	52	•35	16	•20	
38	74	•26	31	•28	
39	36	•00	21	•17	
. 40	24	•25	17	312	
. 41	37	•23	21	•G6	
. 42*	47	•45	37	•33	
. 43	42	•2G .	38	•23	
44*	54	•60	21	. 21	
. 45	30	. 08	14.	•19	
. 46	15	•39	8	6I	

TABLE VI (Cont'd)

Percent Correct Validity	RADIO REPAIR			ENLISTED COMMUNICATIONS		
47* 30 52 14 .09 48 30 .39 9 .24 49 44 .35 .24 .03 50 56 .11 .64 .75 51* .63 .39 .17 .25 52 .34 .24 .20 .17 53 .14 .008 .10 .03 54* .30 .39 .28 .12 55* .71 .36 .18 .21 55* .51 .38 .30 .11 57 .22 .18 .14 .23 58 .46 .16 .22 .14 59 .52 .24 .24 .19 60 .29 .30 .19 .22 61** .38 .21 .26 62 .29 .30 .19 .22 63 .8 .11 .22	Per			Percent Correct	Validity	
48				14	•09	
49	48		•39	'- 9	•24	
50 56 .11 64 .75 51* 63 .39 17 .25 52 34 .24 20 .17 53 14 .008 10 .03 54* 30 .39 28 .12 55* 71 .36 18 .21 56* 51 .38 30 .11 57 22 .18 .14 .23 58 46 .16 .22 .14 69 29 .30 .19 .22 61* 34 .38 .21 .26 62 29 .30 .19 .22 .05 61* 34 .38 .21 .26 .22 .05 62 29 .30 .19 .22 .05 .05 .05 .08 .19 .20 .02 .02 .02 .02 .02 .02 .02 <t< td=""><td>49</td><td></td><td></td><td>24</td><td>•03</td></t<>	49			24	•03	
51* 63 39 17 25 52 34 .24 20 .17 53 14 .08 10 .03 54* 30 .39 28 .12 55* 71 .36 18 .21 56* 51 .38 30 .11 57 22 .18 .14 .23 58 46 .16 .22 .14 59 52 .24 .24 .19 60 29 .30 .19 .22 61* 34 .38 .21 .26 62 29 .09 .22 .05 63 8 .11 .22 .02 63 8 .11 .22 .02 64 .73 .05 .58 .19 65 .71 .30 .44 .47 66 .32 .27 .29	50	56	.11	. 64	•75	
52 34 .24 20 .17 53 14 .08 10 .03 54* 30 .39 28 .12 55* 71 .36 18 .21 56* 51 .38 30 .11 57 22 .18 14 .23 58 46 .16 .22 14 59 52 .24 .24 .19 60 29 .30 19 .22 61* 34 .38 21 .26 62 29 .30 19 .22 61* .34 .38 .21 .26 62 .29 .30 .19 .22 63 .8 .11 .22 .02 64 .73 .05 .58 .19 65 .71 .30 .27 .29 .23 67 .64 .28	51*			′ 17	•25	
53 14 .08 10 .03 54* 30 .39 28 .12 55* 71 .36 18 .21 56* 51 .38 30 .11 57 22 .18 14 .23 58 46 .16 .22 .14 59 52 .24 .24 .19 60 29 .30 19 .22 .01 60 29 .30 19 .22 .05 .05 .05 .05 .05 .05 .05 .05 .05 .05 .05 .08 .19 .22 .05 .02		34		. 20	.17	
55* 71 36 18 .21 56* 51 .38 30 .311 57 22 .18 14 .23 58 46 .16 .22 14 59 52 .24 .24 .19 60 29 .30 .19 .22 61* 34 .38 .21 .26 62 29 .09 .22 05 62 29 .09 .22 05 63 8 11 .22 .02 64 .73 .05 .58 .19 65 .71 .30 .44 .47 60 .27 .29 .23 67 .64 .28 .34 .13 68 .25 .36 .19 .05 .9 .74 .39 .56 .08 .70 .61 12 .38	53	14	•08	10	•03	
56* 51 .38 30 .11 57 22 .18 .14 .23 58 46 .16 .22 14 59 52 .24 .24 .19 60 29 .30 .19 .22 61* 34 .38 .21 .26 62 29 .09 .22 .05 63 8 11 .22 .02 63 8 11 .22 .02 64 .73 .05 .58 .19 65 .71 .30 .44 .47 60 .63 .27 .29 .25 67 .64 .28 .34 .13 68 .25 .36 .19 .05 .99 .74 .39 .56 .08 .70 .61 12 .36 .30 .71 .49 .19	54*	30	•39	. 2 8 '	.12	
57 22 .18 14 .23 58 46 .16 22 14 59 52 .24 .24 .19 60 29 .30 .19 .22 61* .34 .38 .21 .26 62 .29 09 .22 05 63 .8 11 .22 .02 64 .73 .05 .58 .19 65 .71 .30 .44 .47 70 .63 .27 .29 .23 .67 .64 .28 .34 .13 .68 .25 .36 .19 .05 .69 .74 .39 .56 .08 .70 .61 12 .38 .30 .71 .49 .19 .30 .20 .72* .29 .40 .16 .22 .73 .32 .31 <td>55*</td> <td>71</td> <td>•36</td> <td>18</td> <td>.21</td>	55*	71	•36	18	.21	
58 46 .16 22 14 59 52 .24 .24 .19 60 29 .30 .19 .22 61* 34 .38 .21 .26 62 29 09 .22 05 63 8 11 .22 .02 64 73 .05 .58 .19 65 .71 .30 .44 .47 60 .63 .27 .29 .23 67 .64 .28 .34 .13 68 .25 .36 .19 .05 69 .74 .39 .56 .08 70 .61 12 .38 .30 71 .49 .19 .30 .20 .72* .29 .40 .16 .22 .73 .32 .31 .29 .17 .74* .43 .53 .45 .75 .90 .30 .67 .25 <	56*	51	.3 8	. 30	.11	
59 52 24 24 19 60 29 30 19 22 61* 34 38 21 26 62 29 -09 22 -05 63 8 -11 22 02 64 73 05 58 19 65 71 30 44 47 60 03 27 29 23 67 64 28 34 113 68 25 36 19 -05 69 74 39 56 08 70 61 -12 38 30 71 49 19 30 20 72* 29 40 16 22 73 32 31 29 17 74* 74 43 53 45 75 90 30 67 25	57	22	118	14	•23	
59 52 24 24 119 60 29 30 19 22 61* 34 38 21 26 62 29 -09 22 -05 63 8 -11 22 02 64 73 05 58 19 65 71 30 44 47 60 03 27 29 23 67 64 28 34 113 68 25 36 19 05 69 74 39 56 08 70 61 -12 38 30 71 49 19 30 20 72* 29 40 16 22 73 32 31 29 17 74* 74 43 53 45 75 90 30 67 25	58	46	•16	22	14	
60	59	52		24	.19	
61* 34 38 21 26 62 29 -009 22 -05 63 8 -11 22 02 64 75 05 58 19 65 71 30 44 47 66 67 64 28 34 13 68 25 36 19 30 20 72* 29 61 20 72* 29 62 73 32 31 29 17 74* 74 44 43 53 75 90 30 67 25 76 27 30 27 36 77* 61 56 27 30 27 36 77* 61 56 27 30 27 36 77* 61 56 27 39 23 17* 80 86 86 -11 82 -07 81* 52 48 21 05 82* 78 48 55 18 83* 29 40 16 -08 84 29 38 18 16 16 83* 29 40 16 -08 84 29 38 18 16 16 83* 29 40 16 -08 84 29 38 18 16 16 83* 29 40 16 -08 84 29 38 18 16 16 83* 29 40 16 -08 84 29 38 18 16 16 83* 29 40 16 -08 84 29 38 18 16 16 83* 29 40 16 -08 84 29 38 18 16 16 83* 29 40 16 -08 84 29 38 18 16 16 95 95 95 95 95 95 95 95 95 95 95 95 95				19	. 22	
62	6 ị *	34		. 21	•26	
64 73	62	29	09	22	 05	
64 73	63	8	11	22	•02	
68 25 .36 19 .05 69 74 .39 .56 .08 70 61 12 .38 .30 71 49 .19 .30 .20 72* .29 .40 .16 .22 73 .32 .31 .29 .17 74* .74 .43 .53 .45 75 .90 .30 .67 .25 76 .27 .30 .27 .36 .77* .61 .56 .27 .19 .78 .25 .12 .40 09 .79* .51 .39 .23 .17 80 .86 11 .82 07 81* .52 .48 .21 .05 .22* .78 .48 .21 .05 .82* .78 .48 .55 .18 .83* .29 .40 .16 .08 .84 .29 .38 .16 .16 </td <td>64</td> <td>73</td> <td>•○5</td> <td>• 58</td> <td>•19</td>	64	7 3	•○5	• 58	•19	
68 25 .36 19 .05 69 74 .39 .56 .08 70 61 12 .38 .30 71 49 .19 .30 .20 72* .29 .40 .16 .22 73 .32 .31 .29 .17 74* .74 .43 .53 .45 75 .90 .30 .67 .25 76 .27 .30 .27 .36 .77* .61 .56 .27 .19 .78 .25 .12 .40 09 .79* .51 .39 .23 .17 80 .86 11 .82 07 81* .52 .48 .21 .05 .22* .78 .48 .21 .05 .82* .78 .48 .55 .18 .83* .29 .40 .16 .08 .84 .29 .38 .16 .16 </td <td>្ទុំ5</td> <td>71</td> <td>•30 .</td> <td>44</td> <td>•47</td>	្ទុំ5	71	• 3 0 .	44	•47	
68 25 .36 19 .05 69 74 .39 .56 .08 70 61 12 .38 .30 71 49 .19 .30 .20 72* .29 .40 .16 .22 73 .32 .31 .29 .17 74* .74 .43 .53 .45 75 .90 .30 .67 .25 76 .27 .30 .27 .36 .77* .61 .56 .27 .19 .78 .25 .12 .40 09 .79* .51 .39 .23 .17 80 .86 11 .82 07 81* .52 .48 .21 .05 .22* .78 .48 .21 .05 .82* .78 .48 .55 .18 .83* .29 .40 .16 .08 .84 .29 .38 .16 .16 </td <td>6<u>6</u></td> <td>63</td> <td>-27</td> <td>29</td> <td></td>	6 <u>6</u>	63	-27	29		
69 74 39 56 08 70 61 12 38 30 71 49 .19 30 .20 72* 29 .40 16 .22 73 32 .31 .29 .17 74* 74 .43 .53 .45 75 90 .30 .67 .25 76 .27 .30 .27 .36 .77* .61 .56 .27 .19 .78 .25 .12 .40	67	64	•28	34		
69 74 39 56 .08 70 61 12 38 .30 71 49 .19 30 .20 72* 29 .40 16 .22 73 32 .31 .29 .17 74* 74 .43 .53 .45 75 90 .30 .67 .25 76 .27 .30 .27 .36 .71* .61 .56 .27 .19 .78 .25 .12 .40 .09 .79* .51 .39 .23 .17 .80 .86 11 .82 .07 .81* .52 .48 .21 .05 .82* .78 .48 .55 .18 .83* .29 .40 .16 .08 .84* .29 .38 .18 .16 .85* .29 .38 .18 .16 .85* .59 .24 .40 .17	6 <u>8</u>	25	•36	19		
71 49 19 30 20 72* 29 40 16 22 73 32 31 29 17 74* 74 43 53 45 75 90 30 67 25 76 27 30 27 36 77* 61 56 27 19 78 25 12 40 -09 79* 51 39 23 17 80 86 -11 82 -07 81* 52 48 21 05 82* 78 48 21 05 82* 78 48 55 18 83* 29 40 16 -08 84/ 29 38 18 16 45 59 24 40 17 86* 86 50 72 40 87 24 37 14 18 38 25 06<	C9		•39			
72* 29 40 16 22 73 32 31 29 17 74* 74 43 53 45 75 90 30 67 25 76 27 30 27 36 77* 61 56 27 19 78 25 12 40 -09 79* 51 39 23 17 80 86 -11 82 -07 81* 52 48 21 05 82* 78 48 21 05 82* 78 48 55 18 83* 29 40 16 -08 84 29 38 18 16 45 59 24 40 17 86* 86 50 72 40 87 24 37 14 18						
73 32 31 29 17 74* 74 43 53 45 75 90 30 67 25 76 27 36 27 36 77* 61 56 27 19 78 25 12 40 -09 79* 51 39 23 17 80 86 -11 82 -07 81* 52 48 21 05 82* 78 48 55 18 83* 29 40 16 -08 84 29 38 18 16 85 59 24 40 17 86* 86 50 72 40 87 24 37 14 18 88 25 06 22 09 89 5 03 4 03 90 5 03 4 03 91 04 16	.71	49				
74* 74 43 53 45 75 90 30 67 25 76 27 36 27 36 77* 61 56 27 19 78 25 12 40 99 79* 51 39 23 17 80 86 -11 82 -07 81* 52 48 21 05 82* 78 48 55 18 83* 29 40 16 -08 84' 29 38 18 16 85 59 24 40 17 86* 86 50 72 40 87 24 37 14 18 38 25 06 22 09 69 5 03 4 03 90 10 24 16 12 16 92 40 16 12 16 12 16	, 72*					
75 90 30 67 25 76 27 36 27 36 77* 61 56 27 19 78 25 12 40 -09 79* 51 39 23 17 80 86 -11 82 -07 81* 52 48 21 05 82* 78 48 55 18 83* 29 40 16 -08 84' 29 38 18 16 85 59 24 40 17 86* 86 50 72 40 87 24 37 14 18 88 25 06 22 09 89 5 03 4 03 50 12 11 14 -09 91 64 16 12 16 94 32 11 20 16						
76 27 30 27 36 77* 61 56 27 19 78 25 12 40 -09 79* 51 39 23 -17 80 86 -11 82 -07 81* 52 48 21 -05 82* 78 48 55 -18 83* 29 40 16 -08 84 29 38 18 -16 85 59 24 40 -17 86* 86 50 72 -40 87 24 37 14 -18 88 25 -06 22 -09 89 5 -03 4 -03 50 12 -11 14 -09 91 64 -16 -2 -16 92 40 -10 23 -14 93* 36 -46 24 -26 94 32	•					
77* 61 .56 27 .19 78 .25 .12 40 09 79* .51 .39 .23 .17 80 .86 11 .82 07 81* .52 .48 .21 .05 82* .78 .48 .55 .18 83* .29 .40 .16 08 84' .29 .38 .18 .16 .85 .59 .24 .40 .17 .86* .86 .50 .72 .40 .87 .24 .37 .14 .18 .88 .25 .06 .22 .09 .89 .5 .03 .4 .03 .90 .12 .11 .14 09 .91 .04 .16 .12 .16 .92 .40 .12 .14 09 .91 .04 .03 03 03 .90 .12 .11 .14 <td< td=""><td>,</td><td></td><td></td><td></td><td></td></td<>	,					
78 25 .12 40						
79* 51 39 23 17 80 86 11 82 07 81* 52 .48 21 .05 82* 78 .48 .55 .18 83* 29 .40 16 08 84 29 .38 18 .16 85 59 .24 40 .17 86* 86 .50 72 .40 87 24 .37 14 .18 38 25 .06 .22 .09 89 5 .03 4 .03 90 12 .11 14 09 91 .04 .16 .12 .16 02 .46 .19 .23 .14 03* .36 .245 .24 .26 94 .32 .11 .20 .16						
80 86 11 82 07 81* 52 .48 21 .05 82* 78 .48 55 .18 83* 29 .40 16 08 84 29 .38 18 .16 85 59 .24 40 .17 86* 86 .50 72 .40 87 24 .37 14 .18 88 25 .06 22 .09 89 5 .03 4 .03 90 12 .11 14 09 91 .04 .16 .12 .16 02 .44 .19 .23 .14 03* .36 .245 .24 .26 94 .32 .11 .20 .16						
81* 52 .48 21 .05 82* 78 .48 55 .18 83* 29 .40 16 08 84 29 .38 18 .16 85 59 .24 40 .17 86* 86 .50 72 .40 87 24 .37 14 .18 88 25 .06 22 .09 89 5 .03 4 .03 90 12 .11 .14 09 91 .04 .16 .42 .16 .02 .44 .19 .23 .14 .03* .36 .245 .24 .26 .94 .32 .11 .20 .16						
82* 78 .48 55 .18 83* 29 .40 16 08 84 29 .38 18 .16 85 59 .24 40 .17 86* 86 .50 72 .40 87 24 .37 14 .18 88 25 .06 .22 .09 89 5 .03 4 .03 90 12 .11 .14 09 91 .04 .16 .42 .16 .02 .44 .19 .23 .14 .03* .36 .445 .24 .26 .94 .32 .11 .20 .16			**			
83* 29 .40 16 08 84 29 .38 18 .16 .85 59 .24 40 .17 86* 86 .50 72 .40 87 24 .37 14 .18 88 25 .06 .22 .09 89 5 .03 4 .03 90 12 .11 .14 09 91 .04 .16 .12 .16 .12 .44 .19 .23 .14 .03* .36 .245 .24 .26 .94 .32 .11 .20 .16						
80 29 38 18 .16 .85 59 .24 40 .17 .86* 86 .50 72 .40 .87 .24 .37 .14 .18 .88 .25 .06 .22 .09 .89 .5 .03 .4 .03 .90 .12 .11 .14 09 .91 .04 .16 .42 .16 .02 .44 .19 .23 .14 .03* .36 .245 .24 .26 .94 .32 .11 .20 .16						
85 59 .24 40 .17 86* 86 .50 72 .40 87 24 .37 14 .18 88 25 .06 .22 .09 89 5 .03 4 .03 50 12 .11 .14 09 91 .04 .16 .42 .16 32 .44 .10 .23 .14 93* 36 .45 .24 .26 94 32 .11 .20 .16						
86* 86 .50 72 .40 87 24 .37 14 .18 88 25 .06 .22 .09 89 5 .03 4 .03 50 12 .11 .14 09 91 .04 .16 .22 .16 .02 .46 .19 .23 .14 .03* .36 .245 .24 .26 .94 .32 .11 .20 .16			•38			
87 24 .37 14 .18 88 25 .06 .22 .09 89 5 .03 4 .03 50 12 .11 .14 09 91 .04 .16 .12 .16 .02 .46 .19 .23 .14 .03* .36 .245 .24 .26 .94 .32 .11 .20 .16						
38 25 .06 22 .09 89 5 .03 4 .03 90 12 .11 .14 09 91 64 .16 .42 .16 02 .44 .19 .23 .14 93* 36 .245 .24 .26 94 32 .11 .20 .16						
89 5 .03 4 .03 90 12 .11 .14 09 91 64 .16 .12 .16 12 .44 .19 .23 .14 93* 36 .245 .24 .26 94 32 .11 .20 .16						
60 12 11 14 09 91 64 .16 42 .16 32 44 .19 23 .14 93* 36 .45 24 .26 94 32 .11 20 .16						
91 64 .16 12 .16 12 44 .19 23 .14 93* 36 .45 24 .26 94 32 .11 20 .16			•∪0 11			
02 40 10 23 14 93* 36 24 26 94 32 11 20 16						
93* 36 *45 24 26 94 32 11 20 16						
94 32 11 20 16					- 26	
95* 41 .43 26 .11			_77°			
			.43			

TABLE VI (Cont'd)

Percent Correct Validity 96* 74 .51 .27 .01 .97* .39 .40 .1807 .98* .12 .40 .10 .19 .99 .24 .32 .17 .13 .10 .19 .10 .11 .12 .10 .11 .10 .12 .10 .11 .10 .12 .10 .10 .19 .10 .10 .10 .10 .19 .10 .10 .10 .10 .10 .10 .10 .10 .10 .10	RADIO REPAIR			ENLISTED COMMUNICATIONS		
97* 39	Perc	cent Correct	Validity			
98* 12 40 10 19 99 24 32 17 13 100 17 -19 14 11 101* 41 49 11 12 102 41 02. 29 28 103 61 19 30 -02 104 19 37 19 06 105 20 20 17 -03 106 17 33 14 -07 107 5 -10 9 -15 108 17 -08 21 -04 109 49 19 43 -09 110 37 31 24 21 112* 20 47 14 04 113* 36 56 22 15 114 34 29 13 27 115* 10 39 25 02 118 22 42 11 04 119* 30 45 27 21 120* 36 63 27 21 121* 15 55 15 16 10 122 42 31 35 14 123 19 36 29 17 126 41 29 46 22 127 14 47 8 15 129* 27 36 22 37 131 17 12 18 07 136* 10 50 14 08 137 7 36 29 37 131 24 09 129* 27 36 29 17 130 29 17 131 20 45 27 131 20 46 22 127 14 47 8 15 129* 27 36 29 17 130 25 32 35 27 131 17 12 18 09 129* 27 36 29 17 130 25 32 35 27 131 17 12 18 09 124 17 40 7 16 125* 20 45 9 16 126* 41 29 46 22 127 14 47 8 15 128 14 17 40 7 16 129* 27 36 29 17 130 25 32 35 27 131 17 12 18 07 132 27 36 29 17 131 17 12 18 07 132 27 36 29 17 133 24 35 24 07 134 20 33 11 13 135 3 24 07 134 20 33 11 13 136* 10 50 14 08 139* 8 651 10 22 140* 12 50 10 22 139* 8 651 10 22 140* 12 50 10 22 140* 12 50 10 22 140* 12 50 10 22 140* 12 50 10 22 140* 12 50 10 22 140* 12 50 10 22 140* 12 50 10 22 140* 12 50 10 22 140* 12 50 10 22 140* 12 50 10 22 140* 12 50 10 22 140* 12 50 10 22 140* 12 50 10 22 140* 12 50 10 22 140* 12 50 10 22 140* 12 50 10 22 140* 12 50 10 22 140* 12 50 10 22 140* 12 50 10 22 140* 17 50 10 22 140* 17 50 10 22 140* 17 50 10 22 140* 17 50 10 22 140* 17 50 10 22 140* 17 50 10 22 140* 17 50 10 22 140* 17 50 10 22 140* 17 50 10 22 140* 17 50 10 22 140* 17 50 10 22 140* 17 50 10 22 140* 17 50 10 22 140* 17 50 10 22 140* 17 50 10 22 140* 17 50 10 22 140* 17 50 10 22 140* 17 50 10 22 140* 180* 190* 190* 190* 190* 190* 190* 190* 19	96*	74	•51	27	•01	
99	97*	39	•40	18	 07	
100 17 19 14 .11 .12 101 .12 102 .41 .02 .29 .28 103 .61 .19 .30 02 .28 103 .61 .19 .30 02 .103 .104 .19 .37 .19 .06 .06 .105 .20 .20 .17 03 .106 .17 .33 .14 07 .07 .07 .5 10 .9 15 .08 .17 08 .21 04 .04 .109 .49 .19 .43 00 .109 .43 00 .109 .49 .19 .43 04 .109 .49 .19 .43 00 .110 .37 .31 .24 .21 .111 .30 .43 .21 .20 .21 .111 .30 .43 .21 .20 .112 .20 .112 .20 .112 .20 .123 .27 .121	98*	12	•40	10	• 1 9	
100 17 19 14 .11 .12 .10 .11 .12 .10 .11 .12 .10 .11 .12 .12 .10 .11 .12 .12 .10 .22 .28 .10 .20 .20 .20 .17 .03 .19 .06 .06 .105 .20 .20 .17 .03 .106 .17 .03 .14 .007 .06 .107 .05 .10 .9 .15 .00 .10 .00 .15 .00 .10 .00 .15 .00 .10 .00 .15 .00 .15 .00 .10 .00 .15 .00 .00 .15 .00 .00 .15 .00 .00 .15 .00 .00 .00 .15 .00 .00 .15 .00 .00 .00 .15 .00 .00 .15 .00 .00 .00 .00 .00 .00 .00 .00 </td <td>99</td> <td>24</td> <td>•1.3</td> <td>17</td> <td>•13</td>	99	24	•1.3	17	•13	
101* 41 .49 11 .12 102 41 .02 .29 .28 103 61 .19 .30 .02 104 19 .37 19 .06 105 20 .20 .17 .03 106 17 .33 .14 .07 107 5 .10 .9 .15 108 17 .08 .21 .04 109 49 .19 43 .09 110 37 .31 .24 .21 111* 30 .43 .21 .20 112* 20 .47 .14 .04 112* 20 .47 .14 .04 113* 36 .56 .22 .15 114* .34 .29 .13 .27 115* .10 .39 .17 .06 116* .19 .39	100	17	19	14		
103 61 .19 30 02 104 19 .37 19 .06 105 20 .20 17 03 106 17 .33 14 07 107 5 10 9 15 108 17 08 21 04 109 49 .19 43 09 110 37 .31 .24 .21 110 37 .31 .24 .21 111* 30 .43 .20 .21 112* 20 .47 .14 .04 113* 36 .56 .22 .15 114 .34 .29 .13 .27 115* .10 .39 .17 .06 116* .19 .39 .24 .04 117* .22 .09 .25 .02 118* .22 .42	101*	41				
104 19 .37 19 .06 105 20 .20 17 03 106 17 .33 14 07 107 .5 10 9 15 108 17 08 21 04 109 49 .19 43 09 110 37 .31 24 .21 1110 37 .31 24 .21 1111* 30 .43 .21 .20 112* 20 .47 .14 .04 113* 36 .66 .22 .15 114 .34 .29 .13 .27 115* .10 .39 .17 .06 116* .19 .39 .24 .04 117 .22 .09 .25 .02 118 .22 .42 .11 .04 119* .30 .45 .27 .18 120* .56 .63 .27 .21 </td <td>102</td> <td>41</td> <td>•02.</td> <td>29</td> <td>•28</td>	102	41	•02.	29	•28	
105 20 .20 17 .08 106 17 .33 14 .07 107 5 .10 9 .15 108 17 .08 21 .04 109 49 .19 43 .09 110 37 .31 24 .21 111* 30 .43 21 .20 112* 20 .47 14 .04 112* 20 .47 14 .04 112* 36 .56 .22 .15 114 34 .29 13 .27 115* 10 .39 17 .06 116* 19 .39 24 .04 117 .22 .09 .25 .02 118 .22 .42 .11 .04 119* 30 .45 .27 .18 120* .36 .63 .27 .21 121* .15 .55 .15 .10	103	61	.19	30	02	
106 17 .33 14 07 107 5 10 9 15 108 17 08 21 04 109 49 .19 43 09 110 37 .31 .24 .21 111* 30 .43 .21 .20 112* 20 .47 .14 .04 112* 20 .47 .14 .04 112* 36 .56 .22 .15 114 .34 .29 .13 .27 115* .10 .39 .17 .06 116* .19 .39 .24 .04 117 .22 .09 .25 .02 118 .22 .42 .11 .04 119* .30 .45 .27 .18 120* .36 .63 .27 .21 121* .15 .55 .15 .10 122 .42 .31 .35 .	104	19	●37 、	19	•0ê	
107 5 10 9 15 108 17 08 21 04 109 49 .19 43 09 110 37 .31 24 .21 111* 30 .43 21 .20 112* 20 .47 14 .04 112* 20 .47 14 .04 112* 36 .56 22 .15 114 34 .29 13 .27 115* 10 .39 17 .06 116* 19 .39 .24 .04 117 .22 .09 .25 .02 118 .22 .42 .11 .04 119* .30 .45 .27 .18 120* .36 .63 .27 .21 121* .15 .55 .15 .10 122 .42 .31 .35 .14 121* .4 .47 .6 .22	105	20	20 .	17		
108 17 08 21 04 109 49 .19 43 09 110 37 .31 24 .21 111* 30 .43 .21 .20 112* 20 .47 14 .04 112* 36 .56 .22 .15 114 34 .29 13 .27 115* 10 .39 .17 .06 116* 19 .39 .24 .04 117 .22 .09 .25 .02 118 .22 .42 .11 .04 119* .30 .24 .04 119* .30 .24 .04 119* .30 .24 .04 119* .30 .24 .04 119* .30 .25 .02 118 .22 .42 .11 .04 120* .36 .63 .27 .21 121* .15 .15	106	17	•33	14	07	
108 17 08 21 04 109 49 .19 43 09 110 37 .31 .24 .21 111* 30 .43 .21 .20 112* 20 .47 .14 .04 112* 36 .56 .22 .15 114 .34 .29 .13 .27 115* .10 .39 .17 .06 116* .19 .39 .24 .04 117 .22 .09 .25 .02 118 .22 .42 .11 .04 119* .30 .45 .27 .18 120* .36 .63 .27 .21 121* .15 .55 .15 .10 122* .42 .31 .35 .14 123* .19 .35 .18 .09 124 .17 .40 .7 .16 125* .20 .45 .9 <	107	5	10	9	15	
109 49 .19 43 09 110 37 .31 24 .21 111* 30 .43 .21 .20 112* 20 .47 14 .04 113* 36 .56 .22 .15 114 34 .29 13 .27 115* 10 .39 17 .06 116* 19 .39 .24 .04 117 .22 .09 .25 .02 118 .22 .42 .11 .04 119* .30 .45 .27 .18 120* .36 .63 .27 .21 121* .15 .55 .15 .10 122 .42 .31 .35 .14 123* .19 .35 .18 .09 124 .17 .40 .7 .16 125* .20 .45 .9 .16 126* .41 .29 .46 .22<	108	17	08	21		
110 37 .31 24 .21 111* 30 .43 21 .20 112* 20 .47 14 .04 115* 36 .56 .22 .15 114 34 .29 13 .27 115* 10 .39 17 .06 116* 19 .39 .24 .04 117 .22 .09 .25 .02 118 .22 .42 .11 .04 119* .30 .45 .27 .18 120* .36 .63 .27 .21 121* .15 .55 .15 .10 122* .42 .31 .35 .14 123 .19 .35 .18 .09 124* .17 .40 .7 .16 125* .20 .45 .9 .16 126* .41 .29 .46 .22 127* .14 .47 .8 .15	109	49		43		
111* 30 .43 21 .20 112* 20 .47 14 .04 113* 36 .56 22 .15 114 34 .29 13 .27 115* 10 .39 17 .06 116* 19 .39 .24 .04 117 .22 .09 .25 .02 118 .22 .42 .11 .04 119* 30 .45 .27 .18 120* 36 .63 .27 .21 121* .15 .55 .15 .10 122* .42 .31 .35 .14 123* .19 .35 .18 .09 124* .17 .40 .7 .16 125* .20 .45 .9 .16 126* .41 .29 .46 .22 127 .14 .47 .8 .15 128* .14 .17 .14 .16	110	37				
112* 20 .47 14 .04 113* 36 .56 22 .15 114 34 .29 13 .27 115* 10 .39 17 .06 116* 19 .39 .24 .04 117 .22 .09 .25 .02 118 .22 .42 .11 .04 119* .30 .45 .27 .18 120* .36 .63 .27 .21 121* .15 .55 .15 .10 122 .42 .31 .35 .14 123 .19 .35 .18 .09 124 .17 .40 .7 .16 125* .20 .45 .9 .16 126* .41 .29 .46 .22 127 .14 .47 .8 .15 128 .14 .17 .14 .16 129* .27 .36 .29 .17	111*	3 0				
113* 36 .56 22 .15 114 34 .29 .13 .27 115** 10 .39 .17 .06 116** 19 .39 .24 .04 117 .22 .09 .25 .02 118 .22 .42 .11 .04 119** .30 .45 .27 .18 120** .36 .63 .27 .21 121** .15 .55 .15 .10 122 .42 .31 .35 .14 123 .19 .35 .18 .09 124 .17 .40 .7 .16 125** .20 .45 .9 .16 125** .20 .45 .9 .16 125** .20 .45 .9 .16 126** .41 .29 .46 .22 127 .14 .47 .8 .15 128 .14 .17 .14	112*	20				
114 34 29 13 27 115** 10 39 17 06 116** 19 39 24 04 117 22 09 25 02 118 22 42 11 04 119** 30 45 27 18 120** 36 63 27 21 121** 15 55 15 10 122** 42 31 35 14 123 19 35 18 09 124 17 40 7 16 125** 20 45 9 16 125** 20 45 9 16 126** 41 29 46 22 127** 14 47 8 15 128 14 17 14 16 129** 27 36 29 17 130 25 32 35 27 131 <t< td=""><td>113*</td><td></td><td></td><td></td><td></td></t<>	113*					
115** 10 39 17 .06 116** 19 39 24 .04 117 22 .09 25 .02 118 22 .42 11 .04 119** 30 .45 27 .18 120** 36 .63 27 .21 121** 15 .55 15 .10 122** .42 .31 .35 .14 123** 19 .35 18 .09 124** 17 .40 7 .16 125** 20 .45 9 .16 125** 20 .45 9 .16 126** .41 .29 .46 .22 127** .14 .47 8 .15 128** .14 .17 .14 .16 129** .27 .36 .29 .17 130 .25 .32 .35 .27 131 .17 .12 .18 .0	114					
116* 19 39 24 04 117 22 09 25 02 118 22 42 11 04 119* 30 45 27 18 120* 36 63 27 21 121* 15 55 15 10 122* 42 31 35 14 123 19 35 18 09 124 17 40 7 16 125* 20 45 9 16 125* 20 45 9 16 126* 41 29 46 22 127 14 47 8 15 128 14 17 14 16 129* 27 36 29 17 130 25 32 35 27 131 17 12 18 07 132 27 34 29 14 133 24	115:	19				
117 22 .09 25 .02 118 22 .42 11 .04 119* 30 .45 27 .18 120* 36 .63 27 .21 121* .15 .55 .15 .10 122 .42 .31 .35 .14 123 .19 .35 .18 .09 124 .17 .40 .7 .16 125* .20 .45 .9 .16 125* .20 .45 .9 .16 126* .41 .29 .46 .22 127 .14 .47 .8 .15 128 .14 .17 .14 .16 129* .27 .36 .29 .17 130 .25 .32 .35 .27 131 .17 .12 .18 .07 132 .27 .34 .29 .14 133 .24 .33 .24 .07 <td></td> <td></td> <td></td> <td></td> <td></td>						
118 22 .42 11 .04 119* 30 .45 27 .18 120* 36 .63 27 .21 121* .15 .55 .15 .10 122 .42 .31 .35 .14 123 .19 .35 .18 .09 124 .17 .40 .40 .40 .40 125* .20 .45 .9 .16 125* .20 .45 .9 .16 126* .41 .29 .46 .22 127 .14 .47 .8 .15 128 .14 .17 .14 .16 129* .27 .36 .29 .17 130 .25 .32 .35 .27 131 .17 .12 .18 .07 132 .27 .34 .29 .14 133 .24 .33 .24 .07 134 .20 .33 .11	117					
119* 30 .45 27 .18 120* 36 .63 27 .21 121* 15 .55 15 .10 122 .42 .31 .35 .14 123 19 .35 18 .09 124 17 .40 7 .16 125* 20 .45 9 .16 126* .41 .29 .46 .22 127 .14 .47 8 .15 128 .14 .17 .14 .16 129* .27 .36 .29 .17 130 .25 .32 .35 .27 131 .17 .12 .18 .07 132 .27 .34 .29 .14 133 .24 .33 .24 .07 134 .20 .33 .11 .13 135* .3 .25 .4 136* .10 .50 .4	118	22				
120* 36 .63 27 .21 121* 15 .55 15 .10 122 42 .31 .35 .14 123 19 .35 18 .09 124 17 .40 7 .16 125* 20 .45 9 .16 126* .41 .29 .46 .22 127 .14 .47 8 .15 128 .14 .17 .14 .16 129* .27 .36 .29 .17 130 .25 .32 .35 .27 131 .17 .12 .18 .07 132 .27 .34 .29 .14 133 .24 .33 .24 .07 134 .20 .33 .11 .13 135* .3 .25 .4 136* .10 .50 136* .10	119*					
121* 15 .55 15 .10 122 42 .31 .35 .14 123 19 .35 18 .09 124 17 .40 .7 .16 125* 20 .45 .9 .16 126* .41 .29 .46 .22 127 .14 .47 .8 .15 128 .14 .17 .14 .16 129* .27 .36 .29 .17 130 .25 .32 .35 .27 131 .17 .12 .18 .07 132 .27 .34 .29 .14 133 .24 .33 .24 .07 134 .20 .33 .11 .13 125 .3 .25 .4 .36* .0 .0 .28 .38* .24 .0 .39* .30	120* -					
122 42 31 35 14 123 19 35 18 09 124 17 40 7 16 125* 20 45 9 16 125* 20 45 9 16 126 41 29 46 22 127 14 47 8 15 128 14 17 14 16 129* 27 36 29 17 130 25 32 35 27 131 17 12 18 07 132 27 34 29 14 133 24 33 24 07 134 20 33 11 13 135 3 24 07 134 20 33 11 08 137 7 -40 5 -28 138 24 -01 18 19 139* 8 51 <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>						
123 19 35 18 09 124 17 40 7 16 125* 20 45 9 16 126 41 29 46 22 127 14 47 8 15 128 14 17 14 16 129* 27 36 29 17 130 25 32 35 27 131 17 12 18 07 132 27 34 29 14 133 24 33 24 07 134 20 33 11 13 135 3 25 4 -10 136* 10 50 14 08 137 7 -40 5 -28 138 24 -01 18 19 139* 8 51 10 22 140* 12 50 10 21 141* 17		42				
124 17 .40 7 .16 125* 20 .45 9 .16 126 .41 .29 .46 .22 127 .14 .47 8 .15 128 .14 .17 .14 .16 129* .27 .36 .29 .17 130 .25 .32 .35 .27 131 .17 .12 .18 .07 132 .27 .34 .29 .14 133 .24 .33 .24 .07 134 .20 .33 .11 .13 135* .3 .25 .4 136* .10 .50 .14 .08 138 .24 139* .8 .51 140* .12 .50 140* .12 .50 </td <td>123</td> <td></td> <td></td> <td></td> <td></td>	123					
125* 20 45 9 .16 126 41 .29 46 .22 127 14 .47 8 .15 128 14 .17 14 .16 129* .27 .36 .29 .17 130 .25 .32 .35 .27 131 .17 .12 .18 .07 132 .27 .34 .29 .14 133 .24 .33 .24 .07 134 .20 .33 .11 .13 135 .3 .25 .4 .10 136* .10 .50 .14 .08 137 .7 .40 139* .8 .51 .10 140* .12 .50 140* .12 .50 139*	124					
126 41 29 46 22 127 14 47 8 15 128 14 17 14 16 129* 27 36 29 17 130 25 32 35 27 131 17 12 18 07 132 27 34 29 14 133 24 33 24 07 134 20 33 11 13 135 3 25 4 -10 136* 10 50 14 08 137 7 -40 5 -28 138 24 -01 18 19 139* 8 51 10 22 140* 12 50 10 21 141* 17 54 8 02	125*					
127 14 ,47 8 ,15 128 14 ,17 14 ,16 129* 27 ,36 29 ,17 130 25 ,32 35 ,27 131 17 ,12 18 ,07 132 27 ,34 29 ,14 133 24 ,33 24 ,07 134 20 ,33 11 ,13 135 3 ,25 ,4 ,10 136* 10 ,50 14 ,08 137 7 ,40 5 ,28 138 24 ,01 18 ,19 139* 8 ,51 10 ,22 140* 12 ,50 10 ,21 141* 17 ,54 8 ,02	126	41				
128 14 .17 14 .16 129* .27 .36 .29 .17 130 .25 .32 .35 .27 131 .17 .12 .18 .07 132 .27 .34 .29 .14 133 .24 .33 .24 .07 134 .20 .33 .11 .13 135 .3 .25 .4 .10 136* .10 .50 .14 .08 137 .7 .40 138 .24 139* .8 .51 <				_		
129* 27 36 29 .17 130 25 32 35 .27 131 17 .12 18 .07 132 27 .34 29 .14 133 24 .33 .24 .07 134 20 .33 .11 .13 135 3 .25 .4 .10 136* 10 .50 .14 .08 .08 137 7 .40 138 24 139* 8 .51 140* 141* <t< td=""><td>128</td><td>· 14</td><td></td><td></td><td></td></t<>	128	· 14				
130 25 32 35 27 131 17 12 18 07 132 27 34 29 14 133 24 33 24 07 134 20 33 11 13 135 3 25 4 -10 136* 10 50 14 08 137 7 -40 5 -28 138 24 -01 18 ,19 139* 8 51 10 22 140* 12 ,50 10 21 141* 17 ,54 8 02						
131 17 .12 18 .07 132 27 .34 29 .14 133 24 .33 24 .07 134 20 .33 11 .13 135 3 .25 .4 .10 136* 10 .50 14 .08 .08 137 7 .40 5 .28 138 24 .01 18 .19 139* 8 .51 10 .22 140* 12 .50 10 .21 141* 17 .54 8 .02	130			• 3 5		
133 24 .33 24 .07 134 20 .33 11 .13 135 3 .25 .4 10 136* 10 .50 14 .08 137 7' 40 5 28 138 24 01 18 .19 139* 8 .51 10 .22 140* 12 .50 10 .21 141* 17 .54 8 .02		·17		1 8		
133 24 .33 24 .07 134 20 .33 11 .13 135 3 .25 .4 10 136* 10 .50 14 .08 137 7' 40 5 28 138 24 01 18 .19 139* 8 .51 10 .22 140* 12 .50 10 .21 141* 17 .54 8 .02	132	27		29		
136* 10 50 14 08 137 7' -40 5 -28 138 24 -01 18 ,19 139* 8 51 10 22 140* 12 ,50 10 21 141* 17 ,54 8 02				24	.07	
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137 7' 40 5 28 138 24' 01 18 .19 139* 8 .51 10 .22 140* 12 .50 10 .21 141* 17 .54 8 .02	136*			14 ~		
138 24 01 18 ,19 139* 8 .51 10 .22 140* 12 ,50 10 .21 141* 17 ,54 8 .02	137					
139* 8 .51 10 .22 140* 12 .50 10 .21 141* 17 .54 8 .02	138					
140* 12 ,50 10 .21 141* 17 ,54 8 .02	139*					
141* 17 ,54 802	140*	12				
	141*	ገማ ້				
	142	5		0		

TABLE VI (Contid)

	RADIO REPA	.IR	ENLISTED COMMUNICATIONS		
	Percent Correct	Validity	Percent Correct	Validity	
143	3	.42	2	~• 39	
144	5	•40	5	 45	
145	5	. 46	7	14	
146	-	.	3	00	
147	2	• 55	6	80.	
148	5 5	•52	. 8	04	

^{*} Items tentatively selected for Final Form 2.

additional consideration. All item analysis information had been summarized on item analysis cards, including the item content, before selection was made.

VI. CONCLUSIONS .

- 1. The experimental tests add nothing to AGCT in predicting grades in the Enlisted Communications Course.
- 2: The Radio Information Tests prodict grades in the Padio Repair Course with considerable accuracy.
- 3. No predictor other than Radio Information adds to the prediction obtained with this test alone.
- 4. Conclusions concerning prediction of two sub-criteria of Radio Theory grades and grades in practical work in tests and repair are almost identical both in absolute magnitude and with respect to relative size for the different predictors.

VII. TECHVICIA'S

1. Field Work

Data were obtained by mail.

2. Preparation of Report

Hubort E. Bregden, PhD

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FOR

SCIENTIFIC AND TECHNICAL INFORMATION

CAMERON STATION ALEXANDRIA. VIRGINIA



UNCLASSIFIED

003650 5/8 697 Unelase. ATI- 207 152 % First Coronal Robert of Application Coronal College The VILLE WE THE THE THE THE TOUR FORE FOREST all to coonlett years occased tradecar and I has Madde Rotale Cource and in the Comunications Cource at the Book Costroyor Fredhing School, Carr Hood, Toxic DOD 1960 Par Forman Tares 16 July 16 OAT Padio Operations NTIS, Auth: ARI notice, 2 May 80